

Contents

Volume 112, January 1989

- CHARLES R. JOHNSON (Williamsburg, Virginia)
A Gersgorin-type Lower Bound for the Smallest Singular Value 1
- JERZY K. BAKSALARY AND AUGUSTYN MARKIEWICZ
(Poznań, Poland)
A Matrix Inequality and Admissibility of Linear Estimators
with Respect to the Mean Square Error Matrix Criterion 9
- TOMASZ SZULC (Poznań, Poland)
A Lower Bound for the Perron Root of a Nonnegative
Matrix. II 19
- IZCHAK LEWKOWICZ (Haifa, Israel)
Bounds for the Singular Values of a Matrix with Nonnegative
Eigenvalues 29
- R. MNEIMNE (St. Cloud, France)
Formule de Taylor pour le Déterminant et Deux Applications 39
- MING-XIAN PANG (Jilin, China)
On Constructions of Partially Nonpositive Matrices 49
- DONALD W. ROBINSON AND WAYNE W. BARRETT (Provo, Utah)
The Jordan 1-Structure of a Matrix of Redheffer 57
- YONG-CHUAN CHEN AND ADITYA SHASTRI
(Cambridge, Massachusetts)
On Joint Realization of $(0, 1)$ Matrices 75
- J. PATERA AND H. ZASSENHAUS (Montréal, Canada)
On Lie Gradings. I 87
- HARALD K. WIMMER (Würzburg, West Germany)
Root Vectors and Jordan Chains of Integer Matrices 161
- D. C. DZENG AND W. W. LIN (Hsinchu, China)
HMDR and FMDR Algorithms for the Generalized Eigenvalue
Problem 169
- G. W. STEWART (College Park, Maryland)
On Scaled Projections and Pseudoinverses 189
- ROBERTO COSTA (São Paulo, Brazil)
A Note on Bernstein Algebras 195
- ROBERT E. ATALLA (Athens, Ohio)
Saturated Sets of Probability Measures and Stochastic Matrices 207

Contents continued

U. KAMPS (Aachen, West Germany)

Chebyshev Polynomials and Least Squares Estimation Based
on One-Dependent Random Variables217

MUSHENG WEI (Shanghai, China)

The Perturbation of Consistent Least Squares Problems231

AUTHOR INDEX247